RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	/0/572.195
Source:	IFWP.
Date Processed by STIC:	4/6/06

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 04/06/2006
PATENT APPLICATION: US/10/572,195 TIME: 10:54:17

Input Set : A:\PCT - Sequence listing for submission.txtl.TXT

Output Set: N:\CRF4\04062006\J572195.raw

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3 <110> APPLICANT: PERFORMANCE GENOMICS, INC.
      5 <120> TITLE OF INVENTION: Insulin-Like Growth Factor-1 Receptor (IGF-1R) Polymorphic
             Alleles and Use of the Same to Identify DNA Markers for
             Reproductive Longevity
      9 <130> FILE REFERENCE: 31649-2137
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/572,195
C--> 12 <141> CURRENT FILING DATE: 2006-03-15
     12 <150> PRIOR APPLICATION NUMBER: US 10/662,613
     13 <151> PRIOR FILING DATE: 2003-09-15
     16 <160> NUMBER OF SEQ ID NOS: 22
     18 <170> SOFTWARE: PatentIn version 3.2
     20 <210> SEO ID NO: 1
     21 <211> LENGTH: 4500
     22 <212> TYPE: DNA
     23 <213> ORGANISM: Mus musculus
     25 <400> SEQUENCE: 1
     26 atgaagtetg geteeggagg agggteeeg acetegetgt gggggetegt gtttetetee
                                                                               60
     28 geogegetet etetetggee gaegagtgga gaaatetgtg ggeoeggeat tgacateege
                                                                              120
     30 aacgactatc agcagctgaa gcgcctggaa aactgcacgg tgatcgaggg cttcctccac
                                                                              180
     32 atcetgetea tetecaagge egaggaetae egaagetaee getteeecaa geteaeegte
                                                                              240
     34 atcactgagt acttgctgct cttccgagtc gctggcctcg agagcctggg agacctcttc
                                                                              300
     36 cccaacctca cagtcatccg tggctggaaa ctcttctaca actacgcact ggtcatcttc
                                                                              360
     38 gagatgacca atctcaagga tattgggctt tataatctga ggaacattac tcggggggcc
                                                                              420
     40 atcaggattg agaagaacgc cgacctctgt tacctctcca ccatagactg gtctctcatc
                                                                              480
     42 ttggatgcgg tgtccaataa ctacattgtg gggaacaagc ccccgaagga atgtggggac
                                                                              540
     44 ctgtgtccag ggacattgga ggagaagccc atgtgtgaga agaccaccat caacaatgag
                                                                              600
     46 tacaactacc gctgctggac cacaaatcgc tgccagaaaa tgtgcccaag tgtgtgcggg
                                                                              660
     48 aagcgagcct gcaccgagaa caacgagtgc tgccacccgg agtgcctggg cagctgccac
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     50 acaccggacg acaacacaac ctgcgtggcc tgcagacact actactacaa aggcgtgtgt
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     52 gtgcctgcct gcccgcctgg cacctacagg ttcgagggct ggcgctgtgt ggatcgcgat
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    54 ttctgcgcca acatccccaa cgctgagagc agtgactcgg atggcttcgt tatccacgac
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    56 gatgagtgca tgcaggagtg tccctcaggc ttcatccgca acagcaccca gagcatgtac
                                                                              960
    58 tgtatcccct gcgaaggccc ctgccccaaa gtctgcggcg atgaagagaa gaaaacgaaa
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     60 accategatt eggtgaette tgeteaaatg etceaaggat geaceateet gaagggeaat
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     62 ctgcttatta acatccggag aggcaataac attgcctcgg agttggagaa cttcatgggg
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    64 ctcatcgagg tggtgaccgg ctacgtgaag atccgccatt ctcatgcctt ggtctccttg
                                                                             1200
    66 teetteetga agaacetteg teteatetta ggagaggage agetggaagg gaactaetee
                                                                             1260
    68 ttctatgtcc tagacaacca gaacttgcag cagctgtggg actggaacca ccggaacctg
                                                                             1320
    70 accgtcaggt ccggaaagat gtactttgct ttcaatccca agctgtgtgt ctccgaaatt
                                                                             1380
    72 taccgcatgg aggaagtgac cggaaccaag ggacgccaga gcaaagggga cataaacacc
                                                                             1440
    74 aggaacaacg gagagcgagc ttcctqtqaa aqtgatqttc tccqtttcac ctccaccacq
                                                                             1500
    76 acctggaaga accgaatcat cataacgtgg caccggtacc ggccgccgga ctaccgggat
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78 ctcatcagct tcacagttta ctacaaggag gcaccattta aaaacgttac ggaatatgac

1620

RAW SEQUENCE LISTING DATE: 04/06/2006 PATENT APPLICATION: US/10/572,195 TIME: 10:54:17

Input Set: A:\PCT - Sequence listing for submission.txt1.TXT
Output Set: N:\CRF4\04062006\J572195.raw

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82 aaggagggcg	agcctggcat 1	tttactgcat (gggctgaagc	cctggaccca	gtatgctgtc	1740
84 tatgtcaagg	ctgtgaccct (caccatggtg (gaaaacgacc	atatccgtgg	ggccaaaagt	1800
86 gaaatcttgt	acattcgcac	caatgcttca (gtcccttcca	ttcccctaga	tgtcctctca	1860
88 gcatcaaact						1920
90 aacttgagtt						1980
92 cacaactact						2040
94 gtggaggagg						2100
96 tgcgcttgcc						2160
98 aaagtctttg						2220
100 agagacgtca						2280
102 gctgacacct						2340
104 agcagagtgg						2400
106 cgcatcgata						2460
108 ttcgtctttg						2520
110 tgggagccaa						2580
112 ggattgatco						2640
114 gtgtccagac						2700
116 aactatacag						2760
118 gtgttcttct						2820
120 ctgccggttg						2880
122 agaaagagaa						2940
124 tatttcagcg						3000
126 accatgaacc						3060
128 ggtgtggtca						3120
130 agtatgcgtg						3180
132 caccatgtgg						3240
134 gaactaatga						3300
136 cagaataato						3360
138 attgcagate						3420
140 aggaactgca						3480
142 gacatctace						3540
144 atgtctcccg						3600
146 ggggtcgtcc						3660
148 gagcaagtto						3720
150 gatatgctgt						3780
150 gatatgetge						3840
154 ttctactaca						3900
						3960
156 atggageete						4020
						4080
160 gttctccgcg						4140
162 aacgagaggg						4200
164 cacgcgccaa						4260
166 caggttgtaa						4320
168 tgctgcccac						
170 tatgcaagca						4380
172 ccttaatgac						4440
174 cctttttctc	_	tecetetetg	ccctctccc	ttccacttcc	acgetetect	4500
177 <210> SEQ	ID NO: 2					

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178 <211> LENGTH: 1373
179 <212> TYPE: PRT
180 <213> ORGANISM: Mus musculus
182 <400> SEQUENCE: 2
184 Met Lys Ser Gly Ser Gly Gly Gly Ser Pro Thr Ser Leu Trp Gly Leu
185 1
188 Val Phe Leu Ser Ala Ala Leu Ser Leu Trp Pro Thr Ser Gly Glu Ile
192 Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg
196 Leu Glu Asn Cys Thr Val Ile Glu Gly Phe Leu His Ile Leu Leu Ile
200 Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val
201 65
204 Ile Thr Glu Tyr Leu Leu Phe Arg Val Ala Gly Leu Glu Ser Leu
                   85
                                       90
208 Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys Leu Phe
               100
                                   105
212 Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys Asp Ile
          115
                               120
216 Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Ala Ile Arg Ile Glu
217
                            135
220 Lys Asn Ala Asp Leu Cys Tyr Leu Ser Thr Ile Asp Trp Ser Leu Ile
                       150
                                            155
224 Leu Asp Ala Val Ser Asn Asn Tyr Ile Val Gly Asn Lys Pro Pro Lys
                   165
                                       170
228 Glu Cys Gly Asp Leu Cys Pro Gly Thr Leu Glu Glu Lys Pro Met Cys
                                   185
               180
232 Glu Lys Thr Thr Ile Asn Asn Glu Tyr Asn Tyr Arg Cys Trp Thr Thr
    195
                               200
236 Asn Arg Cys Gln Lys Met Cys Pro Ser Val Cys Gly Lys Arg Ala Cys
                           215
240 Thr Glu Asn Asn Glu Cys Cys His Pro Glu Cys Leu Gly Ser Cys His
                       230
                                           235
244 Thr Pro Asp Asp Asn Thr Thr Cys Val Ala Cys Arg His Tyr Tyr Tyr
                   245
248 Lys Gly Val Cys Val Pro Ala Cys Pro Pro Gly Thr Tyr Arg Phe Glu
252 Gly Trp Arg Cys Val Asp Arg Asp Phe Cys Ala Asn Ile Pro Asn Ala
           275
                                280
256 Glu Ser Ser Asp Ser Asp Gly Phe Val Ile His Asp Asp Glu Cys Met
                           295
260 Gln Glu Cys Pro Ser Gly Phe Ile Arg Asn Ser Thr Gln Ser Met Tyr
                        310
                                            315
264 Cys Ile Pro Cys Glu Gly Pro Cys Pro Lys Val Cys Gly Asp Glu Glu
                   325
                                       330
268 Lys Lys Thr Lys Thr Ile Asp Ser Val Thr Ser Ala Gln Met Leu Gln
                                   345
272 Gly Cys Thr Ile Leu Lys Gly Asn Leu Leu Ile Asn Ile Arg Arg Gly
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DATE: 04/06/2006 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/572,195 TIME: 10:54:17

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Output Set: N:\CRF4\04062006\J572195.raw

273			355					360					365			
276	Asn	Asn	Ile	Ala	Ser	Glu	Leu	Glu	Asn	Phe	Met	Gly	Leu	Ile	Glu	Val
277		370					375					380				
280	Val	Thr	Gly	Tyr	Val	Lys	Ile	Arg	His	Ser	His	Ala	Leu	Val	Ser	Leu
281	385					390					395					400
284	Ser	Phe	Leu	Lys	Asn	Leu	Arg	Leu	Ile	Leu	Gly	Glu	Glu	Gln	Leu	Glu
285					405					410					415	
288	Gly	Asn	Tyr	Ser	Phe	Tyr	Val	Leu	Asp	Asn	Gln	Asn	Leu	Gln	Gln	Leu
289				420					425					430		
292	Trp	Asp	Trp	Asn	His	Arg	Asn	Leu	Thr	Val	Arg	Ser	Gly	Lys	Met	Tyr
293			435					440					445			_
296	Phe	Ala	Phe	Asn	Pro	Lys		Cys	Val	Ser	Glu		Tyr	Arg	Met	Glu
297		450		-		_	455	_		_	_	460	_		_	
		Val	Thr	Gly	Thr	Lys	Gly	Arg	GIn	Ser		GLY	Asp	Ile	Asn	
	465	_	_		~-7	470		_	_	~7	475	_				480
	Arg	Asn	Asn	GIY		Arg	Ата	ser	Cys		Ser	Asp	vai	ьeu		Pne
305	ml		m1	m\	485	П	T	7	7	490	T1.	T1.	mb	Ш	495	7~~
	Thr	ser	Thr		THE	Trp	ьуѕ	ASII	505	тте	тте	тте	Ini	510	HIS	Arg
309	П122	7 mar	Dro	500 Bro	7 cn	Tyr	λνα	7 cn		Tla	Sor	Dho	Thr		Тугт	Тзгэг
313	ıyı	Arg	515	PIO	Asp	ıyı	Arg	520	ьец	116	Ser	FIIE	525	vaı	ıyı	TAT
	Tare	Glu		Pro	Dhe	Lys	Δan		Thr	Glu	Tyr	Δsn		Gln	Asn	Δla
317	_	530	ALU	110	1110	цуб	535	vai	1111	Olu	- 7 -	540	Cry	Q	1101	1114
			Ser	Asn	Ser	Trp		Met.	Val	Asp	Val		Leu	Pro	Pro	Asn
	545	V-1				550					555	<u>-</u> -				560
		Glu	Gly	Glu	Pro	Gly	Ile	Leu	Leu	His		Leu	Lys	Pro	Trp	
325	•		-		565	•				570	•		•		575	
328	Gln	Tyr	Ala	Val	Tyr	Val	Lys	Ala	Val	Thr	Leu	Thr	Met	Val	Glu	Asn
329				580					585					590		
332	Asp	His	Ile	Arg	Gly	Ala	Lys	Ser	Glu	Ile	Leu	Tyr	Ile	Arg	Thr	Asn
333			595					600					605			
336	Ala	Ser	Val	Pro	Ser	Ile	Pro	Leu	Asp	Val	Leu	Ser	Ala	Ser	Asn	Ser
337		610					615					620				
340	Ser	Ser	Gln	Leu	Ile	Val	Lys	Trp	Asn	Pro		Thr	Leu	Pro	Asn	
	625					630	_				635				_	640
	Asn	Leu	Ser	Tyr	_	Ile	Val	Arg	Trp		Arg	Gln	Pro	Gln	_	Gly
345	_	_	_	_	645	_	_	_	_	650	_	_		_	655	_
	Tyr	Leu	Tyr	_	His	Asn	Tyr	Cys		ьys	Asp	гàг	тте		тте	Arg
349	T		» I	660	a 1	m1	-1 -	7	665	a1	a1	77-7	Mla sa	670	7	Dwo
	гаг	Tyr		Asp	GIY	Thr	тте		vai	GIU	GIU	vai		GIU	ASII	PIO
353	T	mb.~	675	1707	C	C1	~1·-	680	Tvea	C1	Dro	Cira	685	ת דת	Crrc	Dro
	ьуѕ	690	GIU	vai	Cys	Gly	695	Asp	пуѕ	GIY	PIO	700	Cys	Ala	Cys	PIO
357	Lare		Glu	Δla	Glu	Lys		Δla	Glu	Tage	Glu		Δla	Glu	Тугт	Δrα
	705	TIIT	GIU	nia	GIU	710	G111	AIG	Giu	Lys	715	GLU	n.a	GIU	- y -	720
		Val	Phe	Glu	Asn	Phe	Len	His	Asn	Ser		Phe	٧al	Pro	Ara	
365	273			O_Lu	725		204	****		730					735	
	Glu	Ara	Ara	Ara		Asp	Val	Met	Gln		Ala	Asn	Thr	Thr		Ser
369		3	3	740	3				745					750		-

RAW SEQUENCE LISTING DATE: 04/06/2006
PATENT APPLICATION: US/10/572,195 TIME: 10:54:17

Input Set : A:\PCT - Sequence listing for submission.txtl.TXT

Output Set: N:\CRF4\04062006\J572195.raw

372 Ser Arg Ser Arg Asn Thr Thr Val Ala Asp Thr Tyr Asn Ile Thr Asp 376 Pro Glu Glu Phe Glu Thr Glu Tyr Pro Phe Phe Glu Ser Arg Val Asp 380 Asn Lys Glu Arg Thr Val Ile Ser Asn Leu Arg Pro Phe Thr Leu Tyr 384 Arg Ile Asp Ile His Ser Cys Asn His Glu Ala Glu Lys Leu Gly Cys 388 Ser Ala Ser Asn Phe Val Phe Ala Arg Thr Met Pro Ala Glu Gly Ala 392 Asp Asp Ile Pro Gly Pro Val Thr Trp Glu Pro Arg Pro Glu Asn Ser 396 Ile Phe Leu Lys Trp Pro Glu Pro Glu Asn Pro Asn Gly Leu Ile Leu 400 Met Tyr Glu Ile Lys Tyr Gly Ser Gln Val Glu Asp Gln Arg Glu Cys 404 Val Ser Arg Gln Glu Tyr Arg Lys Tyr Gly Gly Ala Lys Leu Asn Arg 408 Leu Asn Pro Gly Asn Tyr Thr Ala Arg Ile Gln Ala Thr Ser Leu Ser 412 Gly Asn Gly Ser Trp Thr Asp Pro Val Phe Phe Tyr Val Pro Ala Lys 416 Thr Thr Tyr Glu Asn Phe Met His Leu Ile Ile Ala Leu Pro Val Ala 420 Ile Leu Leu Ile Val Gly Gly Leu Val Ile Met Leu Tyr Val Phe His 424 Arg Lys Arg Asn Asn Ser Arg Leu Gly Asn Gly Val Leu Tyr Ala Ser 428 Val Asn Pro Glu Tyr Phe Ser Ala Ala Asp Val Tyr Val Pro Asp Glu 432 Trp Glu Val Ala Arg Glu Lys Ile Thr Met Asn Arg Glu Leu Gly Gln 436 Gly Ser Phe Gly Met Val Tyr Glu Gly Val Ala Lys Gly Val Val 440 Lys Asp Glu Pro Glu Thr Arg Val Ala Ile Lys Thr Val Asn Glu 444 Ala Ala Ser Met Arg Glu Arg Ile Glu Phe Leu Asn Glu Ala Ser 448 Val Met Lys Glu Phe Asn Cys His His Val Val Arg Leu Leu Gly 452 Val Val Ser Gln Gly Gln Pro Thr Leu Val Ile Met Glu Leu Met 456 Thr Arg Gly Asp Leu Lys Ser Tyr Leu Arg Ser Leu Arg Pro Glu 460 Val Glu Gln Asn Asn Leu Val Leu Ile Pro Pro Ser Leu Ser Lys 464 Met Ile Gln Met Ala Gly Glu Ile Ala Asp Gly Met Ala Tyr Leu 468 Asn Ala Asn Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn Cys

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/572,195 DATE: 04/06/2006

TIME: 10:54:18

Input Set : A:\PCT - Sequence listing for submission.txt1.TXT

Output Set: N:\CRF4\04062006\J572195.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 3177,3178

VERIFICATION SUMMARYDATE: 04/06/2006PATENT APPLICATION: US/10/572,195TIME: 10:54:18

Input Set : A:\PCT - Sequence listing for submission.txtl.TXT

Output Set: N:\CRF4\04062006\J572195.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:6716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:3120